

Appendix A

Responses to Ballona Creek Recreational Use Survey

8/2/02

Draft Use Attainability Analysis for REC-1 Beneficial Uses of Ballona Creek

Ballona Creek Recreational Use Survey

Name (optional) MARK BURKS

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 120 DAYS

(b) During wet weather 6

2. How do you access the creek? BIKE PATH (OVERLAND)

3. What kind of activities do you engage in around the creek/estuary? BIKE RIDING

4. How far up the creek do you go? MARINA

5. What other recreational activities have you observed in and around the creek and estuary?

WALKING OR SKATING

6. Do you have any concerns about using this creek N/C

7. What is your perception of water quality in the creek? BAD

Ballona Creek Recreational Use Survey

Name (optional) _____

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather ONCE A WEEK

(b) During wet weather _____

2. How do you access the creek? MCMAHUS PARK

3. What kind of activities do you engage in around the creek/estuary? BIKING

4. How far up the creek do you go? MARINA DEL REY

5. What other recreational activities have you observed in and around the creek and estuary?

BIKING, JOGGING

6. Do you have any concerns about using this creek? NO

7. What is your perception of water quality in the creek? POOR AFTER RAIN
VARIES

8/2/02

Ballona Creek Recreational Use Survey

Name (optional) John W.

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather _____

(b) During wet weather _____

} 1st time

2. How do you access the creek? Via Marina del Rey

3. What kind of activities do you engage in around the creek/estuary? ~~1st time~~ Bicycling

4. How far up the creek do you go? all the way (6 miles from Marina del Rey)

5. What other recreational activities have you observed in and around the creek and estuary?

Running, Walking, Bicycling

6. Do you have any concerns about using this creek Safety? Smell?

7. What is your perception of water quality in the creek? Not great - would it want to drink it or swim in it!

08/2/02

Ballona Creek Recreational Use SurveyName (optional) ROSA RAMIREZCircle one: 25 YRS
Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 3/wk.(b) During wet weather not when.2. How do you access the creek? BIKE PATH NAT3. What kind of activities do you engage in around the creek/estuary? JUST BIKING4. How far up the creek do you go? MARIANA DEL REY

5. What other recreational activities have you observed in and around the creek and estuary?

WALKING, RUNNING, PICNICKING PAST SEPULVEDA. BY SANDS.6. Do you have any concerns about using this creek SOME SECTIONS DON'T HAVE PROTECTIVE FENCES (IN THE AREAS OF TRAP)7. What is your perception of water quality in the creek? DIRTY, LOTS OF TRASH

8/2/02

Ballona Creek Recreational Use Survey

Name (optional) LARRY CHAMBLEE

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather WEEKLY

(b) During wet weather WEEKLY

2. How do you access the creek? BIKE PATH THROUGH PARK
NEAR JEFFERSON

3. What kind of activities do you engage in around the creek/estuary? BIKE
RUN, WALK

4. How far up the creek do you go? AS FAR AS THEY LET ME

5. What other recreational activities have you observed in and around the creek and estuary?

SOCCER

6. Do you have any concerns about using this creek MUGGING, POLLUTION

7. What is your perception of water quality in the creek? CRAPOLA

* IMPORTANT FOR SOURCE. FOR CHILDREN TO
PLAY IF THE WATER WERE CLEAN.

8/2/02

Ballona Creek Recreational Use Survey

Name (optional) Jon Nakagawa

Circle one: Resident Visitor

1. How often do you frequent the creek/estuary? Not very often

(a) In dry weather _____

(b) During wet weather _____

2. How do you access the creek? Bridge ramp or crack in fence

3. What kind of activities do you engage in around the creek/estuary? Walking, jogging

4. How far up the creek do you go? To the end

5. What other recreational activities have you observed in and around the creek and estuary?

Soliciting, Bike riding, Jogging

6. Do you have any concerns about using this creek? The danger of pollution to children under

7. What is your perception of water quality in the creek? Poor

Ballona Creek Recreational Use Survey

8-2-02

Name (optional) _____

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather Not very often

(b) During wet weather Not very often

2. How do you access the creek? Through the gate in the studios

3. What kind of activities do you engage in around the creek/estuary? walking

4. How far up the creek do you go? to the kve

5. What other recreational activities have you observed in and around the creek and estuary?

bike riding, jogging

6. Do you have any concerns about using this creek No

7. What is your perception of water quality in the creek? It is very very bad

Ballona Creek Recreational Use Survey

Name (optional) John McGraw

8-2-02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 3 weeks

(b) During wet weather _____

2. How do you access the creek? Ride

3. What kind of activities do you engage in around the creek/estuary? Ride

4. How far up the creek do you go? _____

5. What other recreational activities have you observed in and around the creek and estuary?

6. Do you have any concerns about using this creek _____

7. What is your perception of water quality in the creek? _____

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 8-16-02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 3xWK

(b) During wet weather 1xWK

2. How do you access the creek? Bike

3. What kind of activities do you engage in around the creek/estuary? Bike
Sightsee

4. How far up the creek do you go? McManus park - Marina

5. What other recreational activities have you observed in and around the creek and estuary?

walk

6. Do you have any concerns about using this creek yes - I would not swim in it

7. What is your perception of water quality in the creek? Poor

Ballona Creek Recreational Use Survey

Name (optional) Hugo Arredondo

Date: 8/16/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 2-3 / wk.

(b) During wet weather closed when it rains

2. How do you access the creek? @ National

3. What kind of activities do you engage in around the creek/estuary? Biking to work.

4. How far up the creek do you go? to Mar. of Rey.

5. What other recreational activities have you observed in and around the creek and estuary?

Biking, running

6. Do you have any concerns about using this creek shallow water breeds vectors

7. What is your perception of water quality in the creek? won't swim in it would
dirty water from drains are a concern. rather go somewhere else.

Ballona Creek Recreational Use Survey

Name (optional) Ronnie Clifton

Date: 8/16/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 6/year

(b) During wet weather 0

2. How do you access the creek? bike

3. What kind of activities do you engage in around the creek/estuary? bike, bird watch

4. How far up the creek do you go? ^{bike path}
A terminus / ocean

5. What other recreational activities have you observed in and around the creek and estuary?

jogging, walking, sleeping

6. Do you have any concerns about using this creek pollution (hep C, viral, runoff, etc.)

7. What is your perception of water quality in the creek? polluted

Ballona Creek Recreational Use Survey

Name (optional) Meaghan

Date: 8.16.02

Circle one: Resident / Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 4X week

(b) During wet weather not yet

2. How do you access the creek? by the bridge by overland

3. What kind of activities do you engage in around the creek/estuary? running

4. How far up the creek do you go? about 2 1/2 miles to the 90

5. What other recreational activities have you observed in and around the creek and estuary?

cycling, walking, kids getting their ball in the H₂O,

6. Do you have any concerns about using this creek it's dirty & polluted

7. What is your perception of water quality in the creek? very bad

Ballona Creek Recreational Use Survey

Name (optional) Merrylin

Date: 8/16/02

Circle one Resident / Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather everyday

(b) During wet weather

2. How do you access the creek? @ overland

3. What kind of activities do you engage in around the creek/estuary? walk dog

4. How far up the creek do you go? up to next bridge

5. What other recreational activities have you observed in and around the creek and estuary?

biking, walking, dog walking + drinking

6. Do you have any concerns about using this creek its a death sentence

7. What is your perception of water quality in the creek? murky, nasty

Merrylin

Ballona Creek Recreational Use Survey

Name (optional) TODD SMITH

Date: 8-16-02

Circle one: Resident Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 5 times a week

(b) During wet weather 4 times a week

2. How do you access the creek? from any of several bike entrances

3. What kind of activities do you engage in around the creek/estuary? bird watching
biking

4. How far up the creek do you go? from the beach to the far east end

5. What other recreational activities have you observed in and around the creek and estuary?

walking, running, rollerblading, taking pictures

6. Do you have any concerns about using this creek sometimes, but it doesn't seem dead.

7. What is your perception of water quality in the creek? cleaner after the rains

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 8/16/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather Every day

(b) During wet weather yes.

2. How do you access the creek? @ central

3. What kind of activities do you engage in around the creek/estuary? _____

walk, bike

4. How far up the creek do you go? to beach → Torrance or Pacific Palms

5. What other recreational activities have you observed in and around the creek and estuary?

running walking riding, kids throwing rocks

6. Do you have any concerns about using this creek water is not safe for anything

7. What is your perception of water quality in the creek? very bad. better w/

oil sheens.

8-16-02

Ballona Creek Recreational Use Survey

Name (optional) CARLOS RIVAS

Date: 8/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather _____

(b) During wet weather _____

2. How do you access the creek? Overland

3. What kind of activities do you engage in around the creek/estuary? Biking

4. How far up the creek do you go? 1 mi

5. What other recreational activities have you observed in and around the creek and estuary? Walking, bird watching

6. Do you have any concerns about using this creek? Yes, safety

7. What is your perception of water quality in the creek? Could be improved

Ballona Creek Recreational Use Survey

Name (optional) Don Paul Lee

Date: 8.23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather ✓

(b) During wet weather _____

2. How do you access the creek? bike path

3. What kind of activities do you engage in around the creek/estuary? bike ride

4. How far up the creek do you go? from beach to National

5. What other recreational activities have you observed in and around the creek and estuary?

bird watching, skateboard, jogging, bike

6. Do you have any concerns about using this creek No

7. What is your perception of water quality in the creek? polluted

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 8/23

Circle one: Resident Visitor Other City

1. How often do you frequent the creek/estuary? 1st time here.
(a) In dry weather _____
(b) During wet weather _____
2. How do you access the creek? @ overland
3. What kind of activities do you engage in around the creek/estuary? Biking
4. How far up the creek do you go? Beach
5. What other recreational activities have you observed in and around the creek and estuary? run
6. Do you have any concerns about using this creek _____
7. What is your perception of water quality in the creek? Seen worse.

Ballona Creek Recreational Use Survey

Name (optional) Jan Asai

Date: 8/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather never

(b) During wet weather never

2. How do you access the creek? I don't

3. What kind of activities do you engage in around the creek/estuary? none

4. How far up the creek do you go? Don't

5. What other recreational activities have you observed in and around the creek and estuary?

Bike riding, roller blading, walking

6. Do you have any concerns about using this creek Yes - my husband was mugged on the bike path

7. What is your perception of water quality in the creek? It's gotten better years ago but it's still quite bad

Ballona Creek Recreational Use Survey

Name (optional) Nattie Fuller

Date: 8-23-05

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather ✓

(b) During wet weather

2. How do you access the creek? Bike Pass

3. What kind of activities do you engage in around the creek/estuary? Riding my bike

4. How far up the creek do you go? National to Beach

5. What other recreational activities have you observed in and around the creek and estuary?

Roller Blading

6. Do you have any concerns about using this creek? Safe the fish

7. What is your perception of water quality in the creek? Bad

Ballona Creek Recreational Use Survey

Name (optional)

Dirk

Date:

08/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather

2 x week

(b) During wet weather

2 x

2. How do you access the creek?

Marina or gate at Overland

3. What kind of activities do you engage in around the creek/estuary?

biking

4. How far up the creek do you go?

Marina - Overland - Marina

5. What other recreational activities have you observed in and around the creek and estuary?

walking / Running / hanging out

6. Do you have any concerns about using this creek

Not really

7. What is your perception of water quality in the creek?

dirty

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 7/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather Daily

(b) During wet weather _____

2. How do you access the creek? Foot

3. What kind of activities do you engage in around the creek/estuary? Walk

4. How far up the creek do you go? 2 to 3 Miles

5. What other recreational activities have you observed in and around the creek and estuary?

Bikes

6. Do you have any concerns about using this creek? No

7. What is your perception of water quality in the creek? ? Clear

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 8/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 1/week

(b) During wet weather _____

2. How do you access the creek? sepulveda

3. What kind of activities do you engage in around the creek/estuary? Biking

4. How far up the creek do you go? Back

5. What other recreational activities have you observed in and around the creek and estuary?

Biking

6. Do you have any concerns about using this creek mud

7. What is your perception of water quality in the creek? 3 bad

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 3/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 1/month

(b) During wet weather _____

2. How do you access the creek? bike path

3. What kind of activities do you engage in around the creek/estuary? _____

bike riding

4. How far up the creek do you go? Overland

5. What other recreational activities have you observed in and around the creek and estuary?

Walking

6. Do you have any concerns about using this creek Crime around Mar Vista Gardens

7. What is your perception of water quality in the creek? poor

Ballona Creek Recreational Use Survey

Name (optional) Jesus Padilla

Date: 8/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 10-12

(b) During wet weather 2-3

2. How do you access the creek? ON Bike

3. What kind of activities do you engage in around the creek/estuary? Riding ~~on~~ Bicycle.

4. How far up the creek do you go? To its end at the beach.

5. What other recreational activities have you observed in and around the creek and estuary?

Running and walking

6. Do you have any concerns about using this creek None

7. What is your perception of water quality in the creek? Good but a bit dirty.

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: 8/23/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather _____

(b) During wet weather _____

2. How do you access the creek?

3. What kind of activities do you engage in around the creek/estuary?

4. How far up the creek do you go?

5. What other recreational activities have you observed in and around the creek and estuary?

6. Do you have any concerns about using this creek

7. What is your perception of water quality in the creek?

good one area is usually bad and it's always the same area

Ballona Creek Recreational Use Survey

Name (optional) Elias Armenta

Date: 8/29/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 3 week

(b) During wet weather _____

2. How do you access the creek? Overland entrance

3. What kind of activities do you engage in around the creek/estuary? cycling

4. How far up the creek do you go? to the ~~the~~ beach and bar

5. What other recreational activities have you observed in and around the creek and estuary?

fishing, running, walking, roller blading

6. Do you have any concerns about using this creek no

7. What is your perception of water quality in the creek? OK

Ballona Creek Recreational Use Survey

Name (optional)

David Simpson

Date:

8/29/2

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather

2X week

(b) During wet weather

2X week

2. How do you access the creek?

LA Cienega

3. What kind of activities do you engage in around the creek/estuary?

Bicycling

4. How far up the creek do you go?

20 miles

5. What other recreational activities have you observed in and around the creek and estuary?

Runners, dog watchers, skaters, motorized scooters!

6. Do you have any concerns about using this creek

yes, wouldn't touch it.

7. What is your perception of water quality in the creek?

bad

noisy 2 strokes on path.

Ballona Creek Recreational Use Survey

Name (optional) Bruck

Date: 8/29/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather _____

(b) During wet weather _____

2. How do you access the creek? Street

3. What kind of activities do you engage in around the creek/estuary? _____

4. How far up the creek do you go? Beach

5. What other recreational activities have you observed in and around the creek and estuary? Walking

6. Do you have any concerns about using this creek Glass

7. What is your perception of water quality in the creek? Not Good

Ballona Creek Recreational Use Survey

Name (optional) _____

Date: _____

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather _____

(b) During wet weather _____

2. How do you access the creek? _____

3. What kind of activities do you engage in around the creek/estuary? _____

4. How far up the creek do you go? _____

5. What other recreational activities have you observed in and around the creek and estuary? _____

6. Do you have any concerns about using this creek _____

7. What is your perception of water quality in the creek? _____

Harder walking in water.

Kids sliding down
slope

Ballona Creek Recreational Use Survey

Name (optional) ARACON DACTASLENO

Date: 8/29/02

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 5 times/week

(b) During wet weather 3 times/week

2. How do you access the creek? Duquesne

3. What kind of activities do you engage in around the creek/estuary? cycling

jogging

4. How far up the creek do you go? Marina del Rey

5. What other recreational activities have you observed in and around the creek and estuary?

kids playing around the water

6. Do you have any concerns about using this creek broken glass on path

7. What is your perception of water quality in the creek? It looks unsafe
and a little bit unkempt

Ballona Creek Recreational Use Survey

Name (optional) Lawrence

Date: 8/29/02

Circle one: Resident Visitor slamhater

1. How often do you frequent the creek/estuary?

(a) In dry weather 3/week

(b) During wet weather 3/week

2. How do you access the creek? Bike path

3. What kind of activities do you engage in around the creek/estuary? _____

Fishing, Biking

4. How far up the creek do you go? 21 mile

5. What other recreational activities have you observed in and around the creek and estuary?

Biking, Minger blades, Fishing, walking

6. Do you have any concerns about using this creek _____

None, nice area

7. What is your perception of water quality in the creek? _____

Clean

Ballona Creek Recreational Use Survey

Name (optional) A. A.

Date: Aug. 29, 2002

Circle one: Resident/Visitor

1. How often do you frequent the creek/estuary?

(a) In dry weather 2x per month

(b) During wet weather 2x per month

2. How do you access the creek? at Overland

3. What kind of activities do you engage in around the creek/estuary? Bike

4. How far up the creek do you go? To the ocean.

5. What other recreational activities have you observed in and around the creek and estuary?

Walking, rollerblading, kids hanging out by water, fishing by Marina del Rey.

6. Do you have any concerns about using this creek No.

7. What is your perception of water quality in the creek? Sometimes looks funky/dots of algae at some parts, but the ducks look okay.
I certainly wouldn't ever fish or go in water!

Appendix B

Table 4: Criteria for Indicator for Bacteriological Densities
in USEPA's "Ambient Water Quality Criteria for Bacteria – 1986"
Report No. EPA 330/5-84-002

TABLE 4. CRITERIA FOR INDICATOR FOR BACTERIOLOGICAL DENSITIES

Single Sample Maximum Allowable Density					
Acceptable Swimming Associated Gastro-enteritis Rate per 1000 swimmers	Steady State Geometric Mean Indicator Density	Designated Beach Area (upper 75% C.L.)	Moderate Full Body Contact Recreation upper 82% C.L.)	Lightly Used Full Body Contact Recreation upper 90% C.L.)	Infrequently Used Full Body Contact Recreation (upper 95% C.L.)
Freshwater					
enterococci 8	33 ⁽¹⁾	61	78	107	151
<u>E. coli</u> 8	126 ⁽²⁾	235	298	410	576
Marine Water					
enterococci 19	35 ⁽³⁾	104	158	275	500

Notes:

(1) Calculated to nearest whole number using equation:
(mean enterococci density) = $\text{antilog}_{10} \text{illness rate/1000 people} + .28$
9.40

(2) Calculated to nearest whole number using equation:
(mean E. coli density) = $\text{antilog}_{10} \text{illness rate/1000 people} + 11.74$
9.40

(3) Calculated to nearest whole number using equation:
(mean enterococci density) = $\text{antilog}_{10} \text{illness rate/1000 people} - .20$
12.17

(4) Single sample limit = $\text{antilog}_{10} \left[\log_{10} \text{indicator geometric mean density/100 ml} + \left\{ \begin{array}{l} \text{Factor determined from } x \\ \text{areas under the Normal} \\ \text{probability curve for} \\ \text{the assumed level of} \\ \text{probability} \end{array} \right\} \right]$

The appropriate factors for the indicated one sided confidence levels are:

75% C.L. - .675
82% C.L. - .935
90% C.L. - 1.28
95% C.L. - 1.65

(5) Based on the observed log standard deviations. During the EPA studies: 0.4 for freshwater E. coli and enterococci; and 0.7 for marine water enterococci. Each jurisdiction should establish its own standard deviation for its conditions which would then vary the single sample limit.